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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/519,941	12/29/2004	Masaya Tanaka	0020-5615PUS1	5052	
	7590 09/02/200 ART KOLASCH & BI	EXAMINER			
PO BOX 747	CH 374 22040 0747	OSTRUP, CLINTON T			
FALLS CHURG	CH, VA 22040-0747	ART UNIT	PAPER NUMBER		
		3771			
		NOTIFICATION DATE	DELIVERY MODE		
			09/02/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

		Application No.		Applicant(s)					
			10/519,941		TANAKA, MASAYA				
	Office Action Summary		Examiner		Art Unit				
			CLINTON OS	STRUP	3771				
Period fo	The MAILING DATE of this commur or Reply	nication appe	ears on the c	over sheet with the c	correspondence ad	ddress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum single to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATES of 37 CFR 1.136 munication. tatutory period will will, by statute, c	TE OF THIS (a). In no event, Il apply and will excause the applicat	COMMUNICATION however, may a reply be tin kpire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).	•			
Status									
1)[\	Responsive to communication(s) file	ed on 15 Jun	2009						
′=	Responsive to communication(s) filed on <u>15 June 2009</u> . This action is FINAL . 2b)⊠ This action is non-final.								
3)		/—			osecution as to the	e merits is			
ت ا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4) 🖂	Claim(s) 1,2,4 and 6 is/are pending	in the applic	ation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
	6)⊠ Claim(s) <u>1,2,4 and 6</u> is/are rejected.								
·	Claim(s) is/are objected to.								
•	Claim(s) are subject to restrict	ction and/or	election requ	uirement.					
Applicati	on Papers								
9)□	The specification is objected to by th	e Examiner.							
-	The drawing(s) filed on is/are			objected to by the	Examiner.				
,	Applicant may not request that any obje		•	-					
				-		FR 1.121(d).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ເ	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) ■ Some * c) ■ None of: 1. ■ Certified copies of the priority documents have been received. 2. ■ Certified copies of the priority documents have been received in Application No 3. ■ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4) 5) 6)	T =	ate				

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DETAILED ACTION

1. This Office Action is in response to the amendment filed June 15, 2009. As directed by the amendment, claim 1 has been amended. Claims 3, 5 and 7-12 are cancelled. Thus, claims 1, 2, 4 and 6 are pending in this application.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1, 2, 4 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 describes the absorption aid as "(c) a viscous material containing sodium alginate or propylene glycol alginate, sodium carboxymethyl cellulose, and sodium dihydrogen phosphate" and it is unclear if applicant is attempting to claim (sodium alginate) or (propylene glycol alginate, sodium carboxymethyl cellulose, and sodium dihydrogen phosphate) or (sodium alginate or propylene glycol alginate), sodium carboxymethyl cellulose, and sodium dihydrogen phosphate. Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishino et al., (JP 07-171189 A) and further in view of Tanaka et al., (WO 99/24043, based on the English Equivalent US 6,689,339).

Regarding claim 1, Nishino discloses a carbon dioxide external administration device (figure 1) comprising: a sealing enclosure member (1) capable of for sealing a body surface from the outside air; the sealing enclosure member holds carbon dioxide gas within a sealed inside space; a supply means (2) for supplying carbon dioxide into the inside space of the sealing enclosure member; and an absorption aid (water) that is provided in the inside space of the sealing enclosure member, contains a carbon dioxide-dissolving medium (water) for dissolving carbon dioxide gas, and dissolves carbon dioxide gas to assist transdermal or transmucosal absorption of the carbon dioxide. See: [0008-0015] and figure 1.

Regarding claim 1, Nishino discloses a carbon dioxide external administration device (figure 1) comprising: a sealing enclosure member (1) capable of sealing a body surface from outside air; the sealing enclosure member being capable of holding carbon dioxide gas within a sealed inside space; a supply means (2) for supplying carbon dioxide gas into an inside space of the sealing enclosure member; and an absorption aid (water) that is provided in the inside space of the sealing enclosure member, containing a carbon dioxide-dissolving medium (water) for dissolving carbon dioxide gas, and dissolves carbon dioxide gas to assist transdermal or transmucosal absorption of the carbon dioxide. See: [0008-0015] and figure 1.

However, Nishino lacks the absorption aid containing at least one carbon dioxide-dissolving aid containing a carbon dioxide-dissolving medium which comprises (a) 1,3-butylene glycol; (b) jojoba oil; (c) a viscous material containing sodium alginate or propylene glycol alginate, sodium carboxgmethy1 cellulose, and sodium dihydrogen phosphate; (d) olive oil; (e) avocado butter; (f) a viscous material containing sodium hyaluronate and malic acid; and (g) a viscous material containing carrageenan and pectin.

Tanaka et al teaches a carbon dioxide external administration device with a carbon dioxide absorption aid that contains a carbon dioxide dissolving medium in the form of an emulsion or a cream and said emulsion or cream comprising at least an oil or fat, a surfactant and water. See: Tanaka et al., See: col. 2, lines 36 - col. 9, line 57. Tanaka suggests the use of (a) 1,3-butylene glycol (col. 10, lines 37-40 and claim 9); (b) jojoba oil (col. 10, lines 41-57); (c) a viscous material containing sodium alginate (throughout disclosure (e.g. col. 2, line 67 and col. 7, lines 43-45)), examples (e.g. examples 1-79, 81-82, 85-99, 102, 104-105, 107, 109-140, 142, 145-175, 177, 180-196, 199-201, 204-208, 216-219, 226-242, 248-265, 271-287, 293-299) and claims (e.g. claims 1, 3, and 9) or propylene glycol alginate (col. 2, line 67 - col. 3, line 1 and col. 7, lines43-45), **sodium carboxymethyl cellulose** (throughout examples and claim 9), and sodium dihydrogen phosphate (col.3, line 30 and col. 9, lines 6-12); (d) olive oil (col. 10, line 42); (e) avocado butter (avocado oil at col. 10, line 42); (f) a viscous material containing sodium hyaluronate (col.3, lines 1-2; col. 7, lines 48-49 & col. 10, line 38) and malic acid (col. 3, line 25 and col. 9, line 2); and (q) a viscous material

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containing **carrageenan** (col. 2, line 50 and col. 7, line 18) and **pectin** (col. 2, line 52 and col. 7, line 19). See: col. 7, lines 43-46, Tables 1-25 and claims 1, 3, and 9.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the absorption aid (water) of Nishino, buy using an aqueous viscous gel composition as taught by Tanaka with alcohols having high vaporization temperatures and oils and fats in order to provide an absorption aid comprising the specific ingredients suggested by Tanaka, that would provide "improved skin comfort, usability, and the like of the composition by adding a perfume, color material, moisturizer, oily component..." See: Tanaka col. 9, lines 13-50

Regarding claim 4, Tanaka teaches incorporating carbon dioxide containing viscous compositions into a sheet for topically applying carbon dioxide gas to skin. See: col. 3, line 65 - col. 4, line 3; col. 12, lines 4-33; col. 43, lines 38 - col. 44, line 58.

Regarding claim 6, Nishino discloses a carbon dioxide external administration device with a sealing enclosure member (1 or 11) that is made from a flexible material having a shape holding ability (when inflated), an elastic and flexible material (it expands and contracts as it is inflated) formed into a shower cap or a boot.

6. Claim 2 and is rejected under 35 U.S.C. 103(a) as being unpatentable over Nishino et al., (JP 07-171189 A) in view of Tanaka et al., (WO 99/24043, based on the English Equivalent US 6,689,339) and further in view of Westwood (WO 98/173340).

The combined references disclose all the limitations of claim 2, except the carbon dioxide amount indicator being provided separately from the sealing enclosure member.

Westwood teaches a sealing enclosure member (10) with a valve (18) that would expand (open) when carbon dioxide is supplied into the sealing enclosure member (at least at a given pressure) and contracts (closes) when the amount of carbon dioxide decreases (when the pressure falls below the given pressure). See: figures 1-6.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have added a valve, as taught by Westwood, to the boot device disclosed by the combined references, in order to determine when the optimal amount of carbon dioxide pressure is being applied to the user.

Response to Arguments

7. Applicant's arguments with respect to claim 1, 2, 4 and 6 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CLINTON OSTRUP whose telephone number is (571)272-5559. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on (571) 272-4835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Clinton Ostrup/ Examiner, Art Unit 3771

/Justine R Yu/ Supervisory Patent Examiner, Art Unit 3771